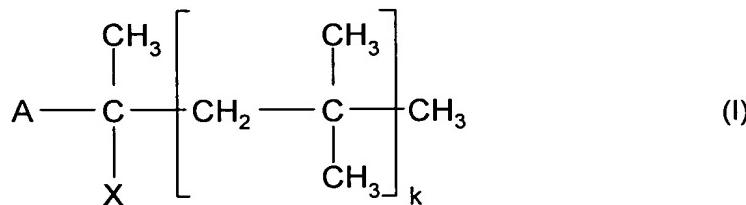


IN THE CLAIMS

Please amend the claims as follows:

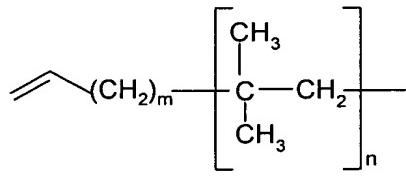
Claim 1 (Currently Amended): A process for preparing a bifunctional polyisobutene ~~polyisobutenes, which comprises comprising~~ polymerizing isobutene or an isobutene-containing monomer mixture in the presence of a Lewis acid and a compound of the formula I



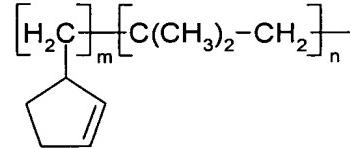
where

X is halogen, C<sub>1</sub>-C<sub>6</sub>-alkoxy or C<sub>1</sub>-C<sub>6</sub>-acyloxy,

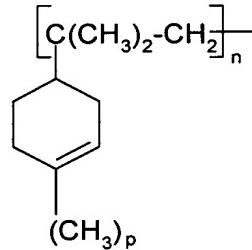
A is a radical of the formulae A.1, A.2 or A.3



A.1



A.2



A.3

where in A.1

m is 0 and n is 1 or 2; or

m is 1 and n is 0, 1 or 2; and

in A.2 and A.3

m is 0 or 1;

n is from 0 to 3 and

p is 0 or 1, and

k is from 0 to 5.

Claim 2 (Currently Amended): ~~A-The~~ process as claimed in claim 1, wherein A is a radical of the formulae A.2 or A.3.

Claim 3 (Currently Amended): ~~A-The~~ process as claimed in ~~any of the preceding claims~~ claim 1, wherein the compound of the formula I is at least one compound selected from the group consisting of 2-chloro-2-methyl-4-pentene, 2-chloro-2,4,4-trimethyl-5-hexene, 2-chloro-2-methyl-3-(cyclopenten-3-yl)propane, 2-chloro-2-methyl-4-(cyclohexen-4-yl)pentane and 2-chloro-2-(1-methylcyclohexen-4-yl)propane.

Claim 4 (Currently Amended): ~~A-The~~ process as claimed in ~~any of the preceding claims~~ claim 1, wherein the Lewis acid is at least one Lewis acid selected from among the group consisting of titanium tetrachloride, boron trichloride, tin tetrachloride, aluminum trichloride, dialkylaluminum chlorides, alkylaluminum dichlorides, vanadium pentachloride, iron trichloride and boron trifluoride.

Claim 5 (Currently Amended): A-The process as claimed in ~~any of the preceding claims~~ claim 1, wherein the reaction is additionally carried out in the presence of an electron donor.

Claim 6 (Currently Amended): A-The process as claimed in claim 5, wherein the electron donor is at least one compound selected from ~~among~~ the group consisting of pyridines, amides, lactams, ethers, amines, esters, thioethers, sulfoxides, nitriles, phosphines and nonpolymerizable, aprotic organosilicon compounds which bear at least one organic radical bound via oxygen.

Claim 7 (Currently Amended): A-The process as claimed in ~~any of the preceding claims~~ claim 1, wherein the polymerization is stopped by addition of a protic compound.

Claim 8 (Currently Amended): A-The process as claimed in claim 7, wherein the product obtained by stopping the polymerization by means of a protic compound is subsequently treated thermally or with a base.

Claim 9 (Currently Amended): A-The process as claimed in ~~any of the preceding claims~~ claim 1, wherein ~~the~~ a living polyisobutene formed ~~in the~~ during the polymerization of isobutene or of the isobutene-containing monomer mixture is reacted with at least one comonomer before the polymerization is stopped.

Claim 10 (Currently Amended): A-The process as claimed in ~~any of the preceding claims~~ claim 9, wherein the living polyisobutene formed in the polymerization of isobutene

or of the isobutene-containing monomer mixture is reacted with a conjugated diene before the polymerization is stopped.

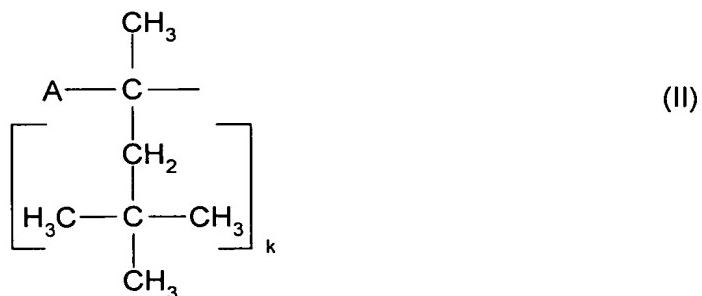
Claim 11 (Currently Amended): ~~A-The~~ process as claimed in ~~any of claims 1 to 6~~ claim 9, wherein the living polyisobutene formed in the polymerization of isobutene or of the isobutene-containing monomer mixture is reacted with a trialkylallylsilane compound or 1,1-diphenylethene together with a base.

Claim 12 (Currently Amended): ~~A-The~~ process as claimed in ~~any of claims 1 to 6~~ claim 9, wherein the living polyisobutene formed in the polymerization of isobutene or of the isobutene-containing monomer mixture is reacted with a coupling agent so that two or more polymer chains are joined together via their distal end.

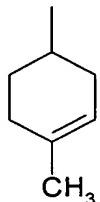
Claim 13 (Currently Amended): ~~A-The~~ process as claimed in claim 12, wherein the coupling agent is selected from the group consisting of among

- i) compounds having at least two 5-membered heterocycles containing a heteroatom selected from among oxygen, sulfur and nitrogen,
- ii) compounds having at least two trialkylsilyl groups in allylic positions, and
- iii) compounds having at least two vinylidene groups conjugated with two aromatic rings.

Claim 14 (Currently Amended): A polyisobutene which is terminated at at least one end of the molecule by a group of the formula II



where A is a group of the formula A.3.1



A.3.1

and k is as defined in claim 1,

or a functionalization product thereof which is obtainable obtained by

- i) hydrosilylation,
- ii) hydrosulfurization,
- iii) electrophilic substitution on aromatics,
- iv) epoxidation and, if desired optionally, reaction with nucleophiles,
- v) hydroboration and, if desired optionally, oxidative cleavage,
- vi) reaction with an enophile in an ene reaction,
- vii) addition of halogens or hydrogen halides or
- viii) hydroformylation.